

Please enter new claims 13 to 16 for examination together with claims 1 to 8, as follows.

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3 Sub C14  
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13. Arrangement of a heating layer (8) according to claim 1, characterized in that additionally at least one measuring conductor path (12) for determining the temperature is applied, and the measuring conductor path (12) is in contact with the heating conductor path (6).

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14. Arrangement of a heating layer (8) according to claim 13, whereby the high-temperature gas sensor comprises a functional layer (4) with the length (L), characterized in that at least one contact is applied between measuring conductor path (12) and heating conductor path (6) in the region of the length (L) below the functional layer (4).

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15. Arrangement of a heating layer (8) according to claim 14, characterized in that more than two contact possibilities (13) are formed between measuring conductor path (12) and heating conductor path (6), in order to select between various different resistance values of the heating conductor path (6).

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16. Arrangement according to claim 14, characterized in that the length (L) of the functional layer (4) is smaller than the spacing distance (L + G) between supply line part and sensor tip, in which the heating conductor path (6) is arranged.